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CONFIRMATION NO. ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 782_193 3689 11/02/2001 Tomohiko Shibata 10/004,345 09/09/2002 25191 7590 **BURR & BROWN** EXAMINER PO BOX 7068 HOGANS, DAVID L SYRACUSE, NY 13261-7068 ART UNIT PAPER NUMBER

DATE MAILED: 09/09/2002

2813

Please find below and/or attached an Office communication concerning this application or proceeding.

						DE
			Application No.		Applicant(s)	
Offic	n Action Summany		10/004,345		SHIBATA ET AL.	
·	C Action Summary		Examiner		Art Unit	
	WWO DATE CH		David L. Hogans		2813	
The MA Period for Reply	AILING DATE of this commu	nication appe	ears on the cover	sheet with the c	orrespondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Respor	nsive to communication(s)	filed on <u>22 A</u>	<u>ugust 2002</u> .			
2a) This ac	tion is FINAL .	2b)⊠ This	s action is non-fir	nal.		
	his application is in condition in accordance with the praca aims					e merits is
4)⊠ Claim(s)	1-9 is/are pending in the	application.				
4a) Of th	e above claim(s) <u>1-6</u> is/are	withdrawn fr	rom consideratio	ո.		
5) Claim(s)	is/are allowed.					
6)⊠ Claim(s)	7-9 is/are rejected.					
7) Claim(s)	is/are objected to.					
8)	are subject to restr	iction and/or	election requiren	nent.		
9) The spec	ification is objected to by the	ne Examiner.				
<u> </u>	ing(s) filed on <u>02 Novembe</u>			or b) objected to	by the Examine	r.
	nt may not request that any of		·		•	
	osed drawing correction file					ЭГ.
If appro	ved, corrected drawings are re	equired in repl	ly to this Office acti	on.		
12) The oath	or declaration is objected t	o by the Exa	miner.			
Priority under 35	U.S.C. §§ 119 and 120					
13)⊠ Acknowl	edgment is made of a clair	n for foreign	priority under 35	U.S.C. § 119(a)	-(d) or (f).	
a)⊠ All b)	Some * c) None of:			. ,		
1.⊠ Ce	ertified copies of the priority	documents	have been recei	ved.		
2. 🗌 Ce	ertified copies of the priority	documents	have been recei	ved in Application	on No	
3.□ Cd	pies of the certified copies	of the priorit	ty documents hav	ve been receive	d in this National	Stage
* See the at	application from the Inter tached detailed Office action				d.	J
14) Acknowled	dgment is made of a claim	for domestic	priority under 35	U.S.C. § 119(e) (to a provisional	application).
	translation of the foreign la dgment is made of a claim		• •			
Attachment(s)			-			
	nces Cited (PTO-892) person's Patent Drawing Review (losure Statement(s) (PTO-1449)	•	5) 🔲		(PTO-413) Paper No(atent Application (PTo	

DETAILED ACTION

Response to Traversal of Restriction

Per your August 22, 2002, response to restriction requirement, Examiner maintains these inventions are distinct because they have acquired a separate status within the art. As proof of this, the August 9, 2002, Election/Restriction Detailed Action cited different classifications for the claimed inventions. Therefore, since the different classifications provides an undue examining burden upon the Examiner, the Restriction Requirement is made final.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over 5,334,277 to Nakamura in view 5,119,541 to Ohmi et al.

Nakamura teaches an apparatus with a MOCVD reactor that uses Group III and Group V material gases, a susceptor that supports a substrate, and a heating element for heating the susceptor to 1000°C or more. (See column 5 lines 30-33 and lines 45-50, column 6 lines 28-32, column 7 lines 13-20 and 35-42)

· Art Unit: 2813

Nakamura fails to explicitly teach wherein at least one of the interior walls or the susceptor is coated with an Al_aGa_bIn_cN (a+b+c=1, a>0) film.

· However, Ohmi et al., in columns 5-6 lines 63-07, teaches that the dense coating film of a susceptor may be AIN. Furthermore, Ohmi et al. teaches that one would employ an AIN coating over a susceptor so as to prevent any impurity gas from being released from the susceptor during subsequent heating. (See column 6 lines 8-14)

It would have been obvious to one of ordinary skill in the art to modify Nakamura in view of Ohmi's et al. teachings of coating a susceptor with a dense AIN film. Nakamura's modification via Ohmi's et al. teachings is obvioius because one would employ an AIN coating over a susceptor so as to prevent any impurity gas from being released from the susceptor during subsequent heating.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Hogans whose telephone number is (703) 305-3361. The examiner can normally be reached on M-F (7:30-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Application/Control Number: 10/004,345

Art Unit: 2813

Page 4

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

C. Claudhari
Chandra Chaudhari
Primary Patent Examiner

dh

September 4, 2002